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Notice of Allowability

Application No.

10/783,523

Examiner

Angela M. Lie

Applicant(s)

LEE, KUO SHENG

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/15/2005.
2. ☒ The allowed claim(s) is/are 1-15 and 17-23.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date ____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date ____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input checked="" type="checkbox"/> Other <u>Drawing</u> |


WILSON LEE
PRIMARY EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dianoosh Salehi on November 22, 2005.

The application has been amended as follows:

In claims 17, 18 and 19, line 1, change "16" to --15--.

The Examiner's amendment has been made in order to correct minor typographical errors and to place the application in condition for allowance.

Allowable Subject Matter

Claims 1-15 and 17-23 are allowed.

The following is an examiner's statement of reasons for allowance:

As to claim 1, the prior art failed to teach a display device comprising: a display area, two power bus lines, cathode layer, an insulating layer, power supply plane, EL elements, wherein those elements are connected in the manner as disclosed in claim 1, and wherein a cathode layer is coupled to a display elements in the display area and to the power bus line of the first type through a first interconnect, and a power supply plane

formed on the insulating layer connected to the power bus line of the second type through a second interconnect.

As to claims 2-8, those claims are allowable by the virtue of their dependency on claim 1.

As to claim 9, the prior art fails to disclose an organic light emission display device comprising: a cathode layer, a insulating layer, a power supply plane and interconnects, wherein all those elements are connected in the manner as disclosed in claim 9.

As to claims 10-14, those claims are allowed by the virtue of their dependency on claim 9.

As to claim 15, the prior art fails to teach a method for forming power supply of light emission display device comprising forming one or more interconnections for connecting the power supply plane to one or more power supply lines that provide positive voltage to one or more display element in the display area.

As to claims 17-20, those claims are allowed by the virtue of their dependency on claim 15.

As to claim 21, the prior art failed to teach a display device comprising: a display area, at least one power bus line of a first type, at least one power bus line of a second type; a cathode layer, an insulating layer, a power plane, wherein all those elements are connected in the manner as disclosed in claim 21, and wherein the power supply plane connects to an anode of each display element through a via connection.

As to claim 22, the prior art failed to teach an organic light emission display device comprising a cathode layer, an insulating layer, a power supply plane, wherein

those elements are connected in the manner as disclosed in claim 22, and wherein the power supply plane connects to one or more power supply lines through one or more interconnections where the interconnections are made at two ends of the power supply lines.

As to claim 23, the prior art failed to disclose a method for forming power supply of a light emission display device, wherein the method comprises: forming a cathode layer, forming insulating layer, forming a power supply plane, and forming one or more interconnections for connecting the power supply plane to one or more power supply lines that provide positive voltage to one or more display element in the display area, wherein the interconnections are formed at two ends of each power supply line. .

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- US Patent 5949194 discloses a display element drive method comprising a substrate, an anode, an active display elements, a cathode and an insulator. This reference does not teach the power bus and interconnections to the display active element.

- US Patent 6690028 discloses an organic electroluminescence element display device with organic semiconductor diodes comprising a cathode, an anode, an EL layer, an insulator. This reference, however, does not teach interconnection(s) to the active display elements.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela M. Lie whose telephone number is 571-272-8445. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Angela M Lie



**WILSON LEE
PRIMARY EXAMINER**

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New
REPLACEMENT SHEET

Fig. 5a

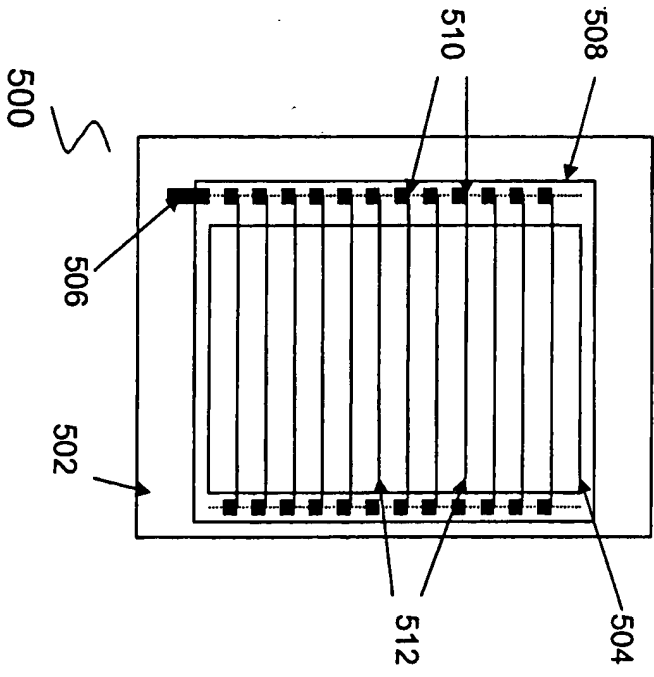


Fig. 5b

